| No. | Description of work | Unit | No. | Dimensions | | | Quantity | Rate in Rs. | Amount in Rs. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | L | B | D | | | |
| | First Floor | | | | | | 61.00 | 97.20 | 5929.00 |
| | Same as Internal Plastering | | | | | | | | |
| 35 | KSRB 15-15.1 : Providing and applying painting in **two coats with plastic emulsion paint** of approved brand to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer KSRB 15-15.2 : Extra over Item 15-15.1 for painting two coats with plastic emulsion paint of approved brand and shade on ceiling and / or sloping roof as per specifications. | Sqm | | | | | | | |
| | (PWD South Zone, BangaloreSR 2016-17 - Item No. - 15.51.3, Page No.117) | | | | | | | | |
| | **Ground Floor** | | | | | | 36.00 | 101.52 | 3655.00 |
| | Same as Ceiling Plastering | | | | | | | | |
| | **First Floor** | | | | | | 36.00 | 101.52 | 3655.00 |
| | Same as Ceiling Plastering | | | | | | | | |
| 36 | KSRB 15-18.1 : Applying red lead ready mix **priming coat over new steel or other metal surface** including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. | Sqm | | | | | | | |
| | (PWD South Zone, BangaloreSR 2016-17 - Item No. - 15.73, Page No.121) | | | | | | | | |
| | **Ground Floor** | Coeff | | | | | | | |
| | D1 | 2.2 | 1 | 1.05 | | 2.10 | 4.85 | | |
| | | | | | | **Say** | **5.00** | 31.32 | **157.00** |
| | **First Floor** | Coeff | | | | | | | |
| | D1 | 2.2 | 1 | 1.05 | | 2.10 | 4.85 | | |
| | | | | | | **Say** | **5.00** | 31.32 | **157.00** |
| 37 | KSRB 15-18.2 : Providing and applying **enamel metal paint two coats** ( excluding priming coat ) **over new steel or other metal surface** brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. | Sqm | | | | | | | |
| | (PWD South Zone, BangaloreSR 2016-17 - Item No. - 15.74, Page No.121) | | | | | | | | |
| | **Ground Floor** | Coeff | | | | | | | |
| | D1 | 2.2 | 1 | 1.05 | | 2.10 | 4.85 | | |
| | | | | | | **Say** | **5.00** | **88.56** | **443.00** |
| | **First Floor** | Coeff | | | | | | | |
| | D1 | 2.2 | 1 | 1.05 | | 2.10 | 4.85 | | |
| | | | | | | **Say** | **5.00** | **88.56** | **443.00** |

| | Description of work | Unit | No. | Dimensions | | | Quantity | Rate in Rs. | Amount in Rs. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | L | B | D | | | |
| | Door Frame - Entrance : Providing & fixing factory made Galvanized plain steel door frame of profile size 125 x 60 mm single rebate manufactured from galvanized plain steel sheet 1.25 mm thick, conforming to IS:277. The door frame consists of hinge jamb, lock jamb, head & bottom tie bars, supply in knockdown condition & to be assembled at site by mechanical means with special mitre joint. The bottom tie bar made out of galvanized plain steel sheet 1.60 mm thick pressed angle 20 x 20 mm screwed to the door frame. The stiffeners of 3 mm thick pre- punched & pre-trapped are to be welded inside the pre-punched slots of the door frames & 4 nos. of S.S. butt hinges 100 x 59 x 2.5 mm to be screwed to the door frame. The necessary stiffeners & mortar guards to be provided for fixing hardware fixtures. The door frame to be powder coated after pre- treatment of the surface. The door frame shall be filled with 1:3:6 cement concrete & to be fixed with adjustable lugs/ hold fasts. Alternatively, dry fixing shall be permitted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excluding the hardware fixtures. size 1000 x 2130 mm | Rmt | | | | | | | |
| | (PWD South Zone, BangaloreSR 2016-17 - Item No. - 38.49.1, Page No.313) | | | | | | | | |
| | **Ground Floor** | | | | | | | | |
| | D1 | | 1 | 5.10 | | | 5.10 | | |
| | | | | | | **Say** | **5.10** | **658.80** | **3360.00** |
| | **First Floor** | | | | | | | | |
| | D1 | | 1 | 5.25 | | | 5.25 | | |
| | | | | | | **Say** | **5.30** | **658.80** | **3492.00** |
| 39 | Door Shutters Entrance : Providing & fixing factory made Galvanized steel door Shutters 32 mm thick manufactured from pre- painted Galvanized plain steel sheet 0.60 mm thick conforming to the IS: 14246. The door shutters consist of two outer skins if steel sheets, lock seam jointed at vertical stile edges, horizontal top & bottom sides to form a double skin fully flush shell. Rigid polyurethane Foam (PUF) of density 40 Kg/M3 shall be filled in the hollow portion of door shutters for structure rigidly & sound insulation. The necessary stiffeners of the Galvanized plain steel sheet of minimum thickness 1.60 mm to be provided for fixing all hardware fixtures. The rate is including MS Doorlock, MS Aldrop, 2nos of oxidised MS Handles, 2nos. of 300mm longTower Bolt, transportation, loading, unloading, HOM etc. | Sqm | | | | | | | |
| | (PWD South Zone, BangaloreSR 2016-17 - Item No. - 38.50.1, Page No.314) | | | | | | | | |
| | **Ground Floor** | | | | | | | | |
| | D1 | | 1 | 1.05 | | 2.10 | 2.21 | | |
| | | | | | | **Say** | **2.30** | **3812.40** | **8769.00** |
| | **First Floor** | | | | | | | | |
| | D1 | | 1 | 1.05 | | 2.10 | 2.21 | | |
| | | | | | | **Say** | **2.30** | **3812.40** | **8769.00** |

| | Description of work | Unit | No. | Dimensions | | | Quantity | Rate in Rs. | Amount in Rs. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | L | B | D | | | |
| | (KSRB 7.7 : Providing and fixing in position in **cement concrete 1:3:6 steel glazed or Unglazed windows** fully openable as per approved drawings using Z angles of 25x25x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm. weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing **4mm thick reeded glass with teakwood beading of required size or 1mm thick MS Sheet and 11 nos of 10mm square MS horizontal gaurd bars,** all steel sections should confirm to IS 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically.All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixturted by using metallic expansion bolt. The rate is including transportation, loading, unloading, HOM etc. but excludi | Sqm | | | | | | | |
| | (PWP&IWTD South Zone, BangaloreSR 2016-17 - Item No. - 7.07, Page No.32) | | | | | | | | |
| | **Ground Floor** | | | | | | | | |
| | W | | 1 | 1.20 | | 1.20 | 1.44 | | |
| | | | | | | **Say** | **1.50** | **4277.16** | **6416.00** |
| | **First Floor** | | | | | | | | |
| | W | | 1 | 1.20 | | 1.20 | 1.44 | | |
| | | | | | | **Say** | **1.50** | **4282.56** | **6424.00** |
| 41 | Providing and fixing **M.S. Hand railing for Balcony / Staircase** etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing. | Sqm | | | | | | | |
| | (PWD South Zone, BangaloreSR 2016-17 - Item No. - 7.35, Page No.42) | | | | | | | | |
| | **Ground Floor** | | | | | | | | |
| | Staircase | | 1 | 12.18 | | 0.90 | 10.96 | | |
| | | | | | | **Say** | **11.00** | **2857.68** | **31434.00** |
| 42 | KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/ sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. | | | | | | | | |

| | Description of work | Unit | No. | Dimensions | | | Quantity | Rate in Rs. | Amount in Rs. |
|---|---|---|---|---|---|---|---|---|---|
| | | | | L | B | D | | | |
| | (PWD South Zone, Bangalore SR 2016-17 - Item No. - 10.02, Page No.66) | | | | | | | | |
| | Terrace | | 1 | 5.70 | 6.40 | | 36.48 | | |
| | | | 1 | 24.20 | | 0.85 | 20.57 | | |
| | | | | | | | 57.05 | | |
| | | | | | | **Say** | **58.00** | **976.32** | **56627.00** |
| 43 | Providing and fixing on wall surface **2.5kg/sq.cm P.V.C rain down water pipes (Spouts) 110mm outer dia** approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications. | Rmt | | | | | | | |
| | (Arrived Rate) | | 2 | | | 1.00 | 2 | | |
| | | | | | | **Say** | **2** | **507.60** | **1015.00** |
| 44 | Providing **wall black boards in CM 1:3 with two coats of black paint** including finishing etc., complete. **(2.4mx1.5m)** | Each | | | | | | | |
| | (PWP&IWTD South Zone, BangaloreSR 2016-17 - Item No. - 37.30, Page No.264) | | | | | | | | |
| | **Ground Floor** | | 1 | | | | 1.00 | | |
| | | | | | | **Say** | **1.00** | 992.52 | **993.00** |
| | | | | | | | | | |
| | **First Floor** | | 1 | | | | 1.00 | | |
| | | | | | | **Say** | **1.00** | 992.52 | **993.00** |
| | GRAND TOTAL | | | | | | | | **1264821.00** |

## Internal Electrification

| | Electrical items | Unit | Nos. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary (Elec SR - 2014-15 - Item No. - 1.2 )(Page No. - 2 ) | Mtr | | | | | | | |
| | P.No.2, I.No.1.2 (1.2.2) **(25mm dia 2mm thick)** | | | | | | | | |
| | Class room - 1 | | 1 | 35.00 | | | 35 | | |
| | Class room - 2 | | 1 | 35.00 | | | 35 | | |
| | Corridor | | 1 | 15.00 | | | 15 | | |
| | | | | | | | **85.00** | 57.00 | **4845.00** |
| 2 | Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, Finishing with necessary cement plastering complete. (Elec SR - 2014-15 - Item No. - 1.6 )(Page No. - 3 ) | Each | | | | | | | |
| | P.No.3, I.No.1.6 (1,6.3) **(10"x7"x3")** | | | | | | | | |
| | Class room - 1 | | 2.00 | | | | 2.00 | | |
| | Class room - 2 | | 2.00 | | | | 2.00 | | |
| | Corridor | | 1.00 | | | | 1.00 | | |
| | | | | | | | **5.00** | 87.00 | **435.00** |
| 3 | Point wiring using Copper wire with switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A (Elec SR - 2014-15 - Item No. - 2.1 )(Page No. - 5 ) | Each | | | | | | | |
| | P.No.5, I.No.2.1 (2.1.1) **(Point Wiring)** | | | | | | | | |
| | Class room - 1 | | 6.00 | | | | 6.00 | | |
| | Class room - 2 | | 6.00 | | | | 6.00 | | |
| | Corridor | | 2.00 | | | | 2.00 | | |
| | | | | | | | **14.00** | 174.00 | **2436.00** |
| 4 | Supplying 6A flush type socket and 6 amps flush type SP switch either surface/flush mounting in existing gang box or in 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required as per IS 1293 and IS 3654 (Elec SR - 2014-15 - Item No. - 3.1 )(Page No. - 15 ) | Each | | | | | | | |
| | P.No.15, I.No.3.1 (3.1.2) **(6A 'U' Socket)** | | | | | | | | |
| | Class room - 1 | | 3 | | | | 3 | | |
| | Class room - 2 | | 3 | | | | 3 | | |
| | | | | | | | **6.00** | 150.00 | **900.00** |
| 5 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5 )(Page No. - 6 ) | Mtr | | | | | | | |
| | P.No.6, I.No.2.5 (2.5.2) **(1.5 Sq.mm)** | | | | | | | | |
| | Class room - 1 | | 1 | 35.00 | | | 35 | | |
| | Class room - 2 | | 1 | 35.00 | | | 35 | | |
| | Corridor | | 1 | 15.00 | | | 15 | | |
| | | | | | | | **85.00** | 18.60 | **1581.00** |
| 6 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5 )(Page No. - 6 ) | Mtr | | | | | | | |
| | P.No.6, I.No.2.5 (2.5.3) **(2.5 Sq.mm)** | | | | | | | | |
| | Class room - 1 | | 2 | 35.00 | | | 70 | | |
| | Class room - 2 | | 2 | 35.00 | | | 70 | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2 | 15.00 | | | 30 | | |
| | | | | | | | **170.00** | 29.20 | **4964.00** |
| | Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws. (Elec SR - 2014-15 - Item No. - 3.9 )(Page No. - 17 ) | Sqcm | | | | | | | |
| | P.No.17, I.No.3.9 **(4mm Plastic sheet)** | | | | | | | | |
| | c) 10"x7"x3" **(P-3, I-6c)** | | 5 | 26.00 | 18.00 | | **2340.00** | 0.25 | **585.00** |
| 8 | Supplying and fixing of modular switch/Socket/Stepped Electronic fan regulator/Dimmer/telephone socket etc on existing modular switch plate as per IS 3854 & IS 1293 GROUP A(Elec SR 2014-15, tem No. 3.7 A) (Page No. 20) | Each | | | | | | | |
| | P.No.16 & 17, I.No.3.7 (3.7.B.23) **(TV/Tele.Socket)** | | | | | | 2.00 | | |
| | Class room - 1 | | 2.00 | | | | 2.00 | | |
| | Class room - 2 | | 2.00 | | | | **4.00** | 67.00 | **268.00** |
| 9 | Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps. (Elec SR - 2014-15 - Item No. - 4.2 )(Page No. - 20 ) | Each | | | | | | | |
| | P.No.20, I.No.4.2 **(PBBC S/S Holders)** | | | | | | **3.00** | 88.00 | **264.00** |
| | Corridor | | 3 | | | | | | |
| 10 | Supplying box type suitable for 28W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders & main connectors. Channel cover shall be made of CRCA MS Sheet and finishing is done with stove enameled white with end caps made of engineering plastic. (Elec SR - 2014-15 - Item No. - 4.7 )(Page No. - 20 ) | Each | | | | | | | |
| | P.No.20, I.No.4.7 (4.7.1) **(FTL 1 x 4' - 28W)** | | | | | | 4.00 | | |
| | Class room - 1 | | 4.00 | | | | 4.00 | | |
| | Class room - 2 | | 4.00 | | | | **8.00** | 990.00 | **7920.00** |
| 11 | Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) (Elec SR - 2014-15 - Item No. - 9.3.1 )(Page No. - 78 ) | Each | | | | | | | |
| | P.No.78, I.No.9.3 (9.3.1.1) **(Ceiling Fan)** | | | | | | 2.00 | | |
| | Class room - 1 | | 2.00 | | | | 2.00 | | |
| | Class room - 2 | | 2.00 | | | | **4.00** | 2376.00 | **9504.00** |
| 12 | Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps. (Elec SR - 2014-15 - Item No. - 17.7 )(Page No. - 108 ) | Each | | | | | | | |
| | P.No.108, I.No.17.7 (17.7.1) **(Fixing of FTL)** | | | | | | 4.00 | | |
| | Class room - 1 | | 4.00 | | | | 4.00 | | |
| | Class room - 2 | | 4.00 | | | | **8.00** | 98.00 | **784.00** |
| 13 | Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring. (Elec SR - 2014-15 - Item No. - 17.8 )(Page No. - 110 ) | Each | | | | | | | |
| | P.No.109, I.No.17.8 **(Fixing of Ceiling Fan)** | | | | | | 2.00 | | |
| | Class room - 1 | | 2.00 | | | | 2.00 | | |
| | Class room - 2 | | 2.00 | | | | **4.00** | 139.00 | **556.00** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (Elec SR - 2014-15 - Item No. - 1.3 )(Page No. - 2 ) | Mtr | | | | | | | |
| | P.No.2, I.No.1.3 (1.3.2) **(25mm dia 2mm thick)(Groove)** | | | | | | | | |
| | Class room - 1 | | 1 | 25.00 | | | 25 | | |
| | Class room - 2 | | 1 | 25.00 | | | 25 | | |
| | Corridor | | 1 | 15.00 | | | 15 | | |
| | | | | | | | **65.00** | 58.00 | **3770.00** |
| 15 | Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. (Elec SR - 2014-15 - Item No. - 2.5 )(Page No. - 6 ) | Mtr | | | | | | | |
| | P.No.6, I.No.2.5 (2.5.4) **(4 Sq.mm)** | | 1 | 50.00 | | | **50.00** | 42.10 | **2105.00** |
| 16 | Supply and fixing of metal **fan hook box** with Round Hook | Each | | | | | | | |
| | P.No.3, I.No.1.12 | | | | | | | | |
| | Class room - 1 | | 2.00 | | | | 2.00 | | |
| | Class room - 2 | | 2.00 | | | | 2.00 | | |
| | | | | | | | **4.00** | 92.00 | **368.00** |
| 17 | Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.III - Double Door (Elec SR - 2014-15 - Item No. - 6.17 III )(Page No. - 47 ) | Each | | | | | | | |
| | P.No.47, I.No.6.17 III (6.17.III.8) **(6Way TP&N DB's DD)** | | 1 | | | | **1.00** | 2867.00 | **2867.00** |
| 18 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (Elec SR - 2014-15 - Item No. - 6.16 )(Page No. - 47 ) | Each | | | | | | | |
| | P.No.47, I.No.6.16 (6.16.1) **(5 to 32 A SP MCB)** | | 1X3 | | | | **3.00** | 418.00 | **1254.00** |
| 19 | Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board. (Elec SR - 2014-15 - Item No. - 6.18.4 )(Page No. - 47 ) | Each | | | | | | | |
| | P.No.47, I.No.6.18 (6.18.4) **( 63 Amps 4 pole ELMCB)** | | 1 | | | | **1.00** | 3350.00 | **3350.00** |
| 20 | Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (Elec SR - 2014-15 - Item No. - 7.1 )(Page No. - 55 ) | Each | | | | | | | |
| | P.No.55, I.No.7.1 **(Earthing)** | | 1 | | | | **1.00** | 2727.00 | **2727.00** |
| 21 | Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire (Elec SR - 2014-15 - Item No. - 7.22.A )(Page No. - 64 ) | Mtr | | | | | | | |
| | P.No.64, I.No.7.22 (7.22.A.3) **(GI Wire 8SWG)** | | 1 | 50.00 | | | **50.00** | 19.50 | **975.00** |
| 22 | Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) (Elec SR - 2014-15 - Item No. - 7.9 )(Page No. - ) | Mtr | | | | | | | |
| | P.No.61, I.No.7.9 (7.9.2) **(Earth Excavation)** | | 1 | 60.00 | | | **60.00** | 106.00 | **6360.00** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 23 | Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. (Elec SR - 2014-15 - Item No. - 7.4 )(Page No. - 55 ) | Mtr | | | | | | | |
| | P.No.55 & 56, I.No.7.4 (7.4.7) **(UG Cable)** | | 1 | 50.00 | | | **50.00** | 265.00 | **13250.00** |
| | | | | | | | | | |
| 24 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. (Elec SR - 2014-15 - Item No. - 7.8.A )(Page No. - 61 ) | Mtr | | | | | | | |
| | P.No.61, I.No.7.8 (7.8.A.2) **(Labour for Cable Laying)** | | 1 | 50.00 | | | **50.00** | 16.20 | **810.00** |
| | **TOTAL** | | | | | | | | **72878.00** |

# BRUHAT BANGALORE MAHANAGARA PALIKE
## Excecutive Engineer Project Division Yelahanka

### Drilling New Borewells

| | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction **(P.47, I. 9.4) PRED.SR 2012-13** | | | | | | | | |
| | **Basic Rate** | 1882 | | | | | | | |
| | Area Weightage 3% | 56.46 | | | | | | | |
| | Total | 1938.46 | | | | | 2 | 1938.46 | **3876.92** |
| 2 | Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) **Page no. 46 / I. 9.1 PRED SR 2012-13** | | | | | | | | |
| | **Basic Rate** | 306 | | | | | | | |
| | Area Weightage 3% | 9.18 | | | | | | | |
| | Total | 315.18 | | | | | **100.00** | 315.18 | **31518.00** |
| | 0 to 50 m | | 2 | 50.00 | | | | | |
| | **Basic Rate** | 400 | | | | | | | |
| | Area Weightage 3% | 12 | | | | | | | |
| | Total | 412 | | | | | **100.00** | 412.00 | **41200.00** |
| | 50 to 100 m | | 2 | 50.00 | | | | | |
| | **Basic Rate** | 445 | | | | | | | |
| | Area Weightage 3% | 13.35 | | | | | | | |
| | Total | 458.35 | | | | | **100.00** | 458.35 | **45835.00** |
| | 100 to 150 m | | 2 | 50.00 | | | | | |
| | **Basic Rate** | 470 | | | | | | | |
| | Area Weightage 3% | 14.1 | | | | | | | |
| | Total | 484.1 | | | | | **100.00** | 484.10 | **48410.00** |
| | 150 to 200 m | | 2 | 50.00 | | | | | |
| | **Basic Rate** | 544 | | | | | | | |
| | Area Weightage 3% | 16.32 | | | | | | | |
| | Total | 560.32 | | | | | **100.00** | 560.32 | **56032.00** |
| | 200 to 250 m | | 2 | 50.00 | | | | | |
| | **Basic Rate** | 583 | | | | | | | |
| | Area Weightage 3% | 17.49 | | | | | | | |
| | Total | 600.49 | | | | | **100.00** | 600.49 | **60049.00** |
| | 251 to 300 m | | 2 | 50.00 | | | | | |
| 3 | Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) **SE PRED III NO 84** | | | | | | | | |
| | | Rmtr | 2 | 45.00 | | | **90.00** | 1325.00 | **119250.00** |
| 4 | Providing 250mm dia PVC Pipe **BWSSB SR 16-17 PNO 57 SL NO 11** | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Rmtr | | | | | | | |
| | | 2 | 15.00 | | | **30.00** | 1144.00 | **34320.00** |
| Providing 175mm dia ms casing cap **page no III it no 85 pred 12-13 sr** | | | | | | | | |
| | no | 2 | | | | **2.00** | 100.00 | **200.00** |
| Providing MS Casing pipe collars **page no III it no 86 pred 12-13 sr** | | | | | | | | |
| | | 2 | 10.00 | | | **20.00** | 150.00 | **3000.00** |
| 7 Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / **Atalanta**/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . PAGE NO **XXXXII** | | | | | | | | | |
| **17.5 HP 30 Stage** | | 2 | | | | **2** | 74300.00 | **148600.00** |
| 8 Providing and fixing to wall ceiling and floor galvanised/ mild steel tubes (medium grade 1.27 kg /mt ) B class **50 mm dia** nominal bore with all fittings ( earth work in trenches to be measured and paid for separately ) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. **(Page 90 ITEM NO 13.6 )** | | | | | | | | |
| Basic rate | 510.00 | | | | | | | |
| Sub Total-1 | 510.00 | | | | | | | |
| 3% AW | 15.30 | | | | | | | |
| Sub Total-2 | 525.30 | | | | | | | |
| | Mtr | 2 | 210.00 | | | **420.00** | 525.30 | **220626.00** |
| 9 Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A **P. No. 12/ I No. (2.10.4) 3cx 6.0 Sqm KPWD Electrical SR 2014-15** | | | | | | | | |
| | Mtr | 2 | 300.00 | | | **600.00** | 188.70 | **113220.00** |
| 10 Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length **pno 558 ino 3 bwssb sr 14-15** | | | | | | | | |
| | NO | 2 | 50.00 | | | **100** | 88.00 | **8800.00** |
| 11 Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary **on fixing the same to the wall using tapered** inverted wooden plugs screws etc., **P No. 44No.6.6.6 KPWD Electrical SR 2014-15** | | | | | | | | |
| 200x200x2.5 | Each | 2 | | | | **2** | 302.00 | **604.00** |
| 12 Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER GALVANIZED galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS:7098 part 1;1998 and confirming to GTP of group.**P No.55/ I No.7.4.4 ( 4 core 16 Sqmm) KPWD Electrical SR 2014-15** | | | | | | | | |
| | Mtr | 2 | 30.00 | | | **60.00** | 140.40 | **8424.00** |
| 13 Labour charges for laying of 1.1 K.V class UG cable, **P No. 61 / I No. 7.8.1 In existing trencg/duct 6Sqmm** 4Core 16Sqmm KPWD Electrical SR 2014-15 | | | | | | | | |
| | Mtr | 2 | 30.00 | | | **60.00** | 10.80 | **648.00** |
| 14 Digging of trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc. complete**P No. 62/ I. No.7.9.4 KPWD Electrical SR 2014-15** | | | | | | | | |
| Mtr | | 2 | 30.00 | | | **60.00** | 117.00 | **7020.00** |
| 15 Providing and laying of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on surface including cutting with necessary clamping arrangements for UG cable of 1.1 KV class **P. No. 62/ I** KPWD Electrical SR 2014-15 | | | | | | | | |
| | Mtr | 2 | 3.00 | | | **6.00** | 345.00 | **2070.00** |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | ...ing and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary ...men/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., **P. No.62/ ... 7.13.2 KPWD Electrical SR 2014-15** | | | | | | | | |
| | ...mm | NO | 2 | | | | **2.00** | 280.00 | **560.00** |
| | ...plying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on ...e meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be ...led with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The ...nnection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI ...pecification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have ...6 throught holes of 122 mm dia, **(P No.55, I No. 7.1) KPWD Electrical SR 2014-15** | | | | | | | | |
| | | NO | 2 | | | | **2** | 2727.00 | **5454.00** |
| 18 | Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No44/I No 6.7.4 KPWD Electrical SR 2014-15** | | | | | | | | |
| | 100 Amps | Each | | | | | | | |
| | | 2 | 3 | | | | **6** | 360.00 | **2160.00** |
| 19 | Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... **P No62 I No 7.14.2 KPWD Electrical SR 2014-15** | | | | | | | | |
| | 25mm dia | Each | | | | | | | |
| | | 2 | 6 | | | | **12** | 86.00 | **1032.00** |
| | | 2 | 6 | | | | **12** | 86.00 | **1032.00** |
| 20 | Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications **pno 47 IT 6.16.5 KPWD Electrical SR 2014-15** | | | | | | | | |
| | | Each | 2 | | | | **2** | 1547.00 | **3094.00** |
| 21 | Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 **P.No. 49, I. No.6.40.2 KPWD Electrical SR 2014-15** | | | | | | | | |
| | 16SWG | Sq.Cm | 4 | 200.00 | 60.00 | | 48000.00 | | |
| | | | 2 | 210.00 | 25.00 | | 10500.00 | | |
| | | | | | | | **58500.00** | 0.33 | **19305.00** |
| 22 | KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 **Page No.90 Item No. 13.55 / PWD SR 2016-17** | | | | | | | | |
| | Basic rate | 1496.00 | | | | | | | |
| | Sub Total-1 | 1496.00 | | | | | | | |
| | 3% AW | 44.88 | | | | | | | |
| | Sub Total-2 | **1540.88** | | | | | | | |
| | | NOS | 2 | | | | **2** | 1540.88 | **3081.76** |
| 23 | Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. **P. No.92/ I. No. 13.81.3 PWD SR** | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Basic rate | 215.00 | | | | | | | |
| | Sub Total-1 | 215.00 | | | | | | | |
| | 3% AW | 6.45 | | | | | | | |
| | Sub Total-2 | **221.45** | | | | | | | |
| | 50mm dia | NOS | 2 | 3.00 | | | **6** | 221.45 | **1328.70** |
| 24 | Gate value 50 mm nominal bore gun metal **P. No.xxiii sl No. 673 PWD SR** | | | | | | | | |
| | 50mm dia | NOS | 2 | 3.00 | | | **6** | 1650.00 | **9900.00** |
| 25 | NIPPLE 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR** | | | | | | | | |
| | 50mm dia | NOS | 2 | | | | **2** | 104.30 | **208.60** |
| 26 | S BEND 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR** | | | | | | | | |
| | 50mm dia | NOS | 2 | 3.00 | | | **6** | 219.00 | **1314.00** |
| 27 | TEE 50 mm nominal bore gun metal **P. No.xxXIXiii FITTINGS PWD SR** | | | | | | | | |
| | 50mm dia | NOS | 2 | | | | **2** | 169.00 | **338.00** |
| 28 | Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm | | | | | | | | |
| | | NO | 2 | | | | **2** | 10000.00 | **20000.00** |
| 29 | Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications .**(P.No.5, I.No.2.1) ( SR of PWD )** | | | | | | | | |
| | Basic rate | 157.00 | | | | | | | |
| | Sub Total-1 | 157.00 | | | | | | | |
| | 3% AW | 4.71 | | | | | | | |
| | Sub Total-2 | **161.71** | | | | | | | |
| | | | 2 | 50.00 | 0.60 | 0.75 | 45.00 | | |
| | | | | | Per Cmtr | | **45.00** | 161.71 | **7277.00** |
| 30 | Providing and installing at site of work pvc pipes including cost of pipes and special and labour including lowering into trenches laying true to line level and prefect linking at joints, leak proof including jointing of approved type with all labour and lift charges handling charges including encasing the pipes all round to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete PVC pipe of 6kg/cm2 75 mm (0.662) **(Page no.13, Item No.7.1.5) (kuws and db)** | | | | | | | | |
| | | | 2 | 50.00 | | | 100.00 | | |
| | Basic Rate | 128.00 | | | | | | | |
| | Area Weightage @ 3% | 3.84 | | | Per Rmtr | | **100.00** | 131.84 | **13184.00** |
| | **Total** | **131.84** | | | | | | | |
| 31 | KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications Specification No.KBS 2.1 **.( Page No.6, Item No. 2.10)** | | | | | | | | |
| | Basic rate | 127.00 | | | | | | | |
| | Sub Total-1 | 127.00 | | | | | | | |
| | 3% AW | 3.81 | | | | | | | |
| | Sub Total-2 | **130.81** | | | | | | | |
| | | | | | Per Cmtr | | **45.00** | 95.40 | **4293.00** |
| 32 | BESCOM Deposit | L/S | 2 | | | | **2** | 14000.00 | **28000.00** |
| | | | | | | | **Total Construction Cost** | | **1075264.98** |